

IN THE CLAIMS:

Please amend claims 15 and 31, and cancel claims 1-14 and 17-30 as follows:

1. - 14 (Canceled)

15. (Currently Amended) A method of infusing a fluid into a body of a user, the method comprising:

obtaining a blood glucose concentration of the user;

generating a controller input based on the blood glucose concentration;

generating commands by a proportional plus, integral plus, derivative (PID) controller from the controller input using at least one preset controller gain ~~The method according to claim 4, wherein the PID controller is a bilinear PID controller; and~~

infusing a liquid based on the commands from the PID controller.

16. (Original) The method according to claim 15, wherein the bilinear PID controller accurately estimates a hypoglycemic glucose excursion.

17. – 30. (Canceled)

31. (Currently Amended) A system for infusing a fluid into a body of a user, the system comprising:

means for obtaining a blood glucose concentration of the user;

means for generating a controller input based on the blood glucose concentration;

means for generating commands by a proportional plus, integral plus, derivative (PID) controller from the controller input using at least one preset controller gain ~~The system according to claim 17, wherein the PID controller is a bilinear PID controller; and~~

means for infusing a liquid based on the commands from the PID controller.

32. (Original) The system according to claim 31, wherein the bilinear PID controller accurately estimates a hypoglycemic glucose excursion.